

Evaluation of Integrated Non-communicable Diseases Screening (POSBINDU) Implementation: Missed Opportunity in Non-communicable Diseases Screening in Indonesia



“Presented at GACD Annual Scientific Meeting 2020, November 10th – 13th 2020”

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Introduction

- Noncommunicable Diseases (NCDs) and their risk factors in Indonesia are increasing

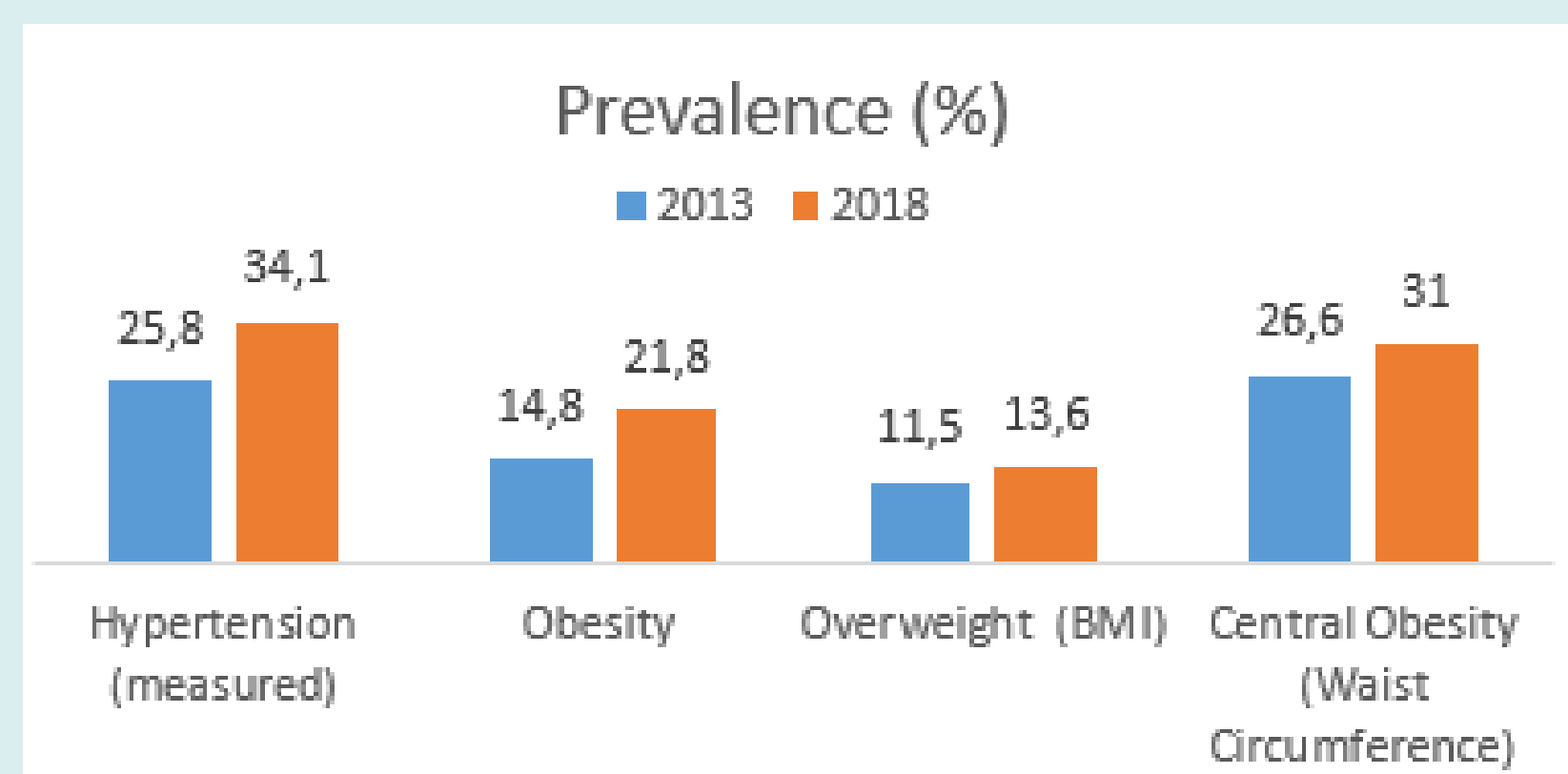


Fig 1. Prevalence of Hypertension and NCDs risk factors in Indonesia, RISKESDAS 2018

- The government launched POSBINDU (Community-based Integrated NCD Screening) in early 2010s to improve screening and linkage to care for NCD
- This study aims to describe the implementation of POSBINDU and its barriers

Methods

- Mixed-methods study conducted in 7 districts within 3 provinces in Indonesia

Quantitative Data Collection

Qualitative Data Collection

POSBINDU evaluation

Fig 2. Design of POSBINDU evaluation

- 22 focus group discussions among primary health care (PHC) officials, health department officials, and POSBINDU cadres
- 114,581 POSBINDU visits from secondary data
- Descriptive analysis to assess the participants' characteristics and implementation of POSBINDU



Results

POSBINDU participants

- Despite aimed to screen people of productive age (<60 years old), POSBINDU screens mainly female older adult

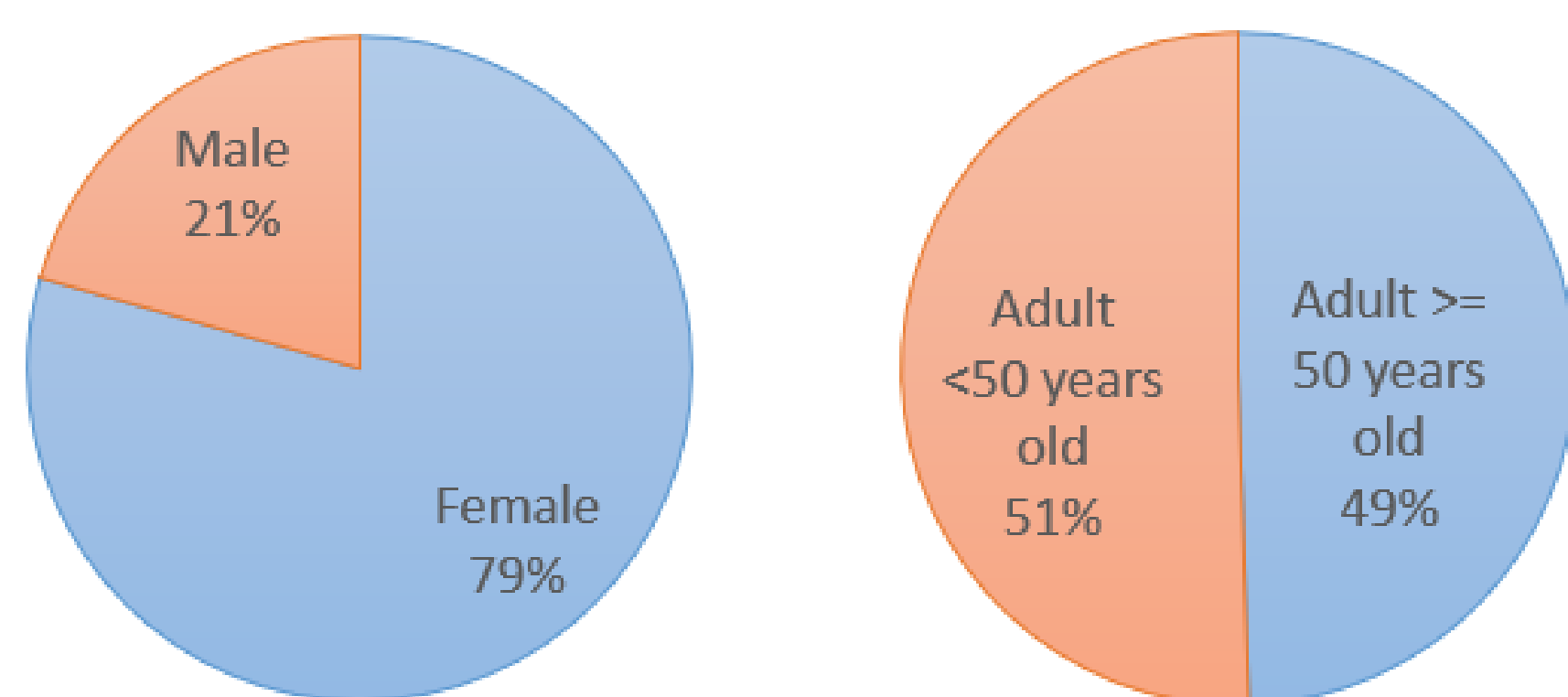


Fig 3. Proportion of POSBINDU participants, secondary data, 2018-2019

POSBINDU activities implementation

Suboptimal activities were also observed, with relatively high missing information with regard to screening activities

When further explored in the FGDs, there were barriers in two main areas: POSBINDU implementation and reporting.

Barriers in POSBINDU implementation: the unavailability of several types of equipment and the time limitation in completing the risk factor and family history taking.

RESULTS

POSBINDU reporting is also suboptimal due to cadre's capability in using computer, and due to complexity of forms.

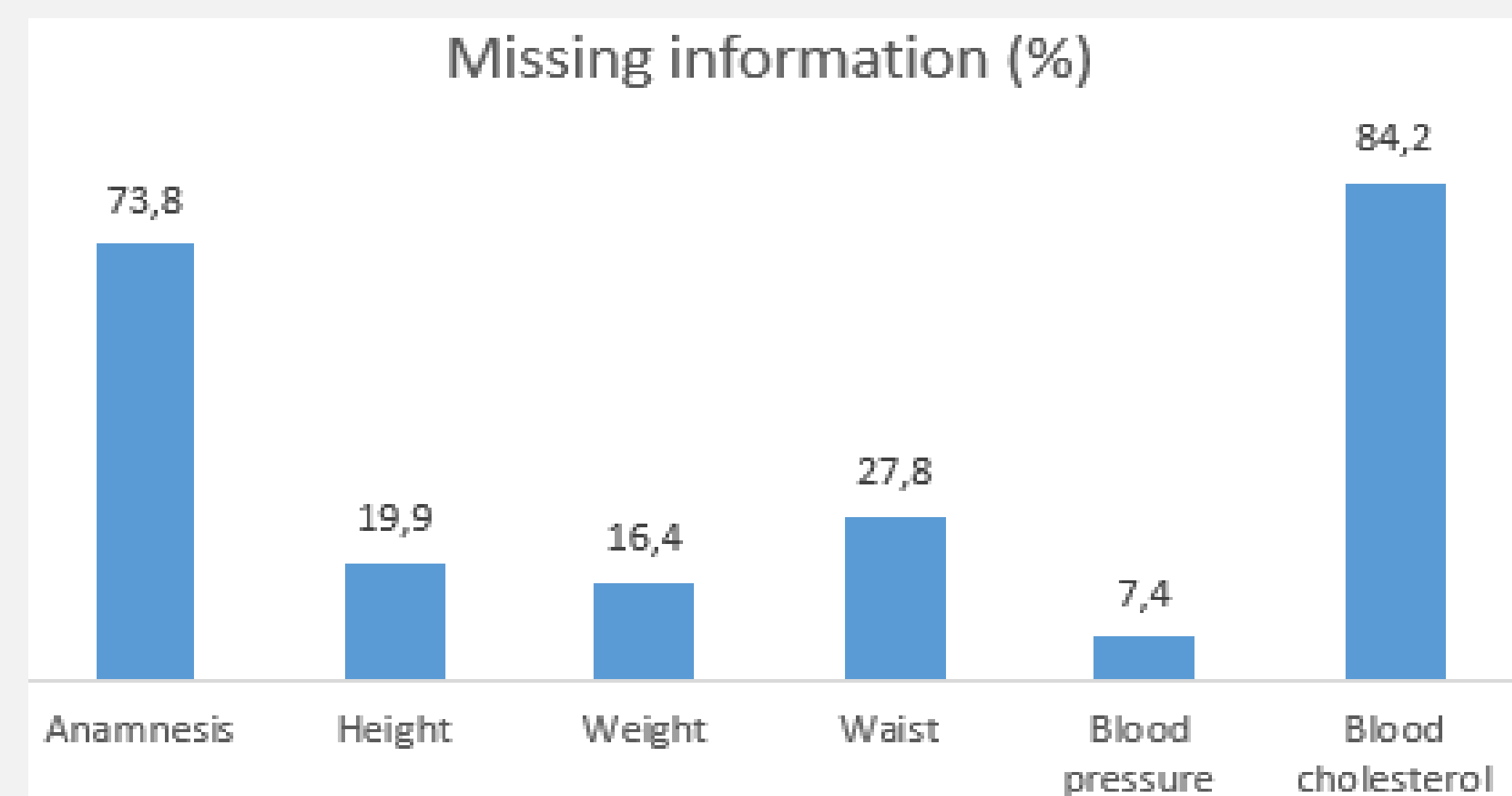


Fig 4. Proportion of missing information in POSBINDU activities, secondary data, 2018-2019

Conclusion

- There was suboptimal implementation of NCD screening through POSBINDU, particularly among male and younger adults
- The barriers include complexity of the implementation and reporting, and resources limitation (equipment, quantity and competency of cadres)

Recommendation

- An innovative approach to simplify and improve the capacity of POSBINDU is in preparation to optimize the screening and linkage to care of NCD in Indonesia.

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Financed by European Union